

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	10	("3750889" "0360441" "4204967" "6110368").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/22 13:04
S1	2	"20050258092"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/20 11:57
S2	10	("3750889" "0360441" "4204967" "6110368").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 12:20
S4	756	210/497.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:20
S5	358004	"4" and (twist\$3 or twirl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:19
S6	756	210/497.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:23
S7	52	S6 and (twist\$3 or twirl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:20

## EAST Search History

S8	1506	210/497.01.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:26
S9	56	S8 and (twist\$3 or twirl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:23
S10	443	210/459.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:29
S11	6	S10 and (twist\$3 or twirl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:28
S12	594	210/304.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:53
S13	11	S12 and (twist\$3 or twirl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:29
S14	10	("3253714"   "3327864"   "3394815"   "3442391"   "3633343"   "3685657").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/20 15:41
S15	12	("3750889").URPN.	USPAT	OR	OFF	2007/06/20 15:41

## EAST Search History

S16	14	("2895508"   "3502218"   "3633343"   "3636982"   "3750889"   "4190105"   "4806086"   "4926933"   "5601717"   "5985144"   "6105664"   "6206090").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/20 15:43
S17	0	("7108139").URPN.	USPAT	OR	OFF	2007/06/20 15:49
S18	1	"5972210".pn.	USPAT	OR	OFF	2007/06/20 15:49
S19	470	210/437.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:53
S20	11	S19 and (twist\$3 or twirl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 15:54
S21	962	210/483,485,488,497.01.ccls. and (twist\$3 or twirl\$3 or tube)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/21 10:45
S22	3	("2627350"   "4909937").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/21 10:18
S23	6	("5104534").URPN.	USPAT	OR	OFF	2007/06/21 10:19

## EAST Search History

S24	91	("2210397"   "2397759"   "2599604"   "2962121"   "3025964"   "3112184"   "3147100"   "3160488"   "3334753"   "3397518"   "3722696"   "3739916"   "3871851"   "4065341"   "4157902"   "4310419"   "4419108"   "4441899"   "4589983"   "4634527"   "4652286"   "4685944"   "4720292"   "4826517"   "4878929"   "4885015"   "4925561"   "4929263"   "5106397"   "5167683"   "5275636"   "5298046"   "5322537"   "5376270"   "5415677"   "5431706"   "5484466"   "5487767"   "5494497"   "5512172"   "5525136"   "5547480"   "5549722"   "5549724"   "5556440"   "5562825"   "5601626"   "5601717"   "5605625"   "5618324"   "5620505"   "5632791"   "5669949"   "5674302"   "5674393"   "5679122"   "5685985"   "5693109"   "5725624"   "5730769"   "5741421"   "5755842"   "5755843"   "5779747"   "5792228"   "5795361"   "5797973"   "5800581"   "5820646"   "5824232"   "5863313"   "5885314"   "5893937"   "5902364"   "5958097"   "6099606"   "6113784"   "6149700"   "D342990"   "D396098"   "D399944").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/21 10:29
S25	3	("6511599").URPN.	USPAT	OR	OFF	2007/06/21 10:32
S26	8	("2724176"   "3440822"   "3685657"   "3830373"   "3861153"   "4006599").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/21 10:39
S27	11	("4204967").URPN.	USPAT	OR	OFF	2007/06/21 10:44
S28	1	"20040173520"	USPAT	OR	OFF	2007/06/21 10:44

## EAST Search History

S29	491	210/483,485,488,497.01.ccls. and (helical\$3 or pleat\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/21 10:46
S30	121	("0360441"   "0629377"   "1175948"   "1669461"   "2145535"   "2331332"   "2395449"   "2420414"   "2537992"   "2586078"   "2600150"   "2689652"   "2759610"   "2801009"   "2979209"   "3002870"   "3054507"   "3122501"   "3174625"   "3241680"   "3244574"   "3314546"   "3317043"   "3389797"   "3392843"   "3438825"   "3499068"   "3501013"   "3503511"   "3547719"   "3696932"   "3719983"   "3769128"   "3813334"   "3850813"   "3902858"   "3920553"   "3932153"   "3982980"   "4062781"   "4069091"   "4148732"   "4206050"   "4218324"   "4353761"   "4386999"   "4402830"   "4447327"   "4457795"   "4500426"   "4517090"   "4522719"   "4547289"   "4552612"   "4721546"   "4741788"   "4743331"   "4758392"   "4784709"   "4786298"   "4828698"   "4839037"   "4839048"   "4855058"   "4872990"   "4929354"   "4956089"   "4963260"   "5064485"   "5096591"   "5128039"   "5130023"   "5147541"   "5174896"   "5178753"   "5198107"   "5252207"   "5256285"   "5275743"   "5277807"   "5290445"   "5403482"   "5462675"   "5472606"   "5543047"   "5575904"   "5620599"   "5776342"   "Re31912").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/21 10:48

## EAST Search History

S31	1207	"4245217"(USPAT) "4246774"(USPAT) "4247315"(USPAT) "4251686"(USPAT) "4256583"(USPAT) "4261820"(USPAT) "4278995"(USPAT) "4290894"(USPAT) "4292173"(USPAT) "4292179"(USPAT) "4295953"(USPAT) "4297116"(USPAT) "4298887"(USPAT) "4305593"(USPAT) "4309916"(USPAT) "4315978"(USPAT) "4317751"(USPAT) "4325090"(USPAT) "4331535"(USPAT) "4334899"(USPAT) "4343232"(USPAT) "4345623"(USPAT) "4346401"(USPAT) "4349363"(USPAT) "4351476"(USPAT) "4352735"(USPAT) "4355087"(USPAT) "4355866"(USPAT) "4357415"(USPAT) "4358262"(USPAT) "4364403"(USPAT) "4366054"(USPAT) "4369518"(USPAT) "4371418"(USPAT) "4375507"(USPAT) "4376053"(USPAT) "4380241"(USPAT) "4382656"(USPAT) "4384250"(USPAT) "4388087"(USPAT) "4391274"(USPAT) "4392077"(USPAT) "4404586"(USPAT) "4413229"(USPAT) "4417820"(USPAT) "4419784"(USPAT) "4419998"(USPAT) "4426735"(USPAT) "4427546"(USPAT) "4429281"(USPAT) "4429319"(USPAT) "4433694"(USPAT) "4434435"(USPAT) "4438455"(USPAT) "4443813"(USPAT) "4444575"(USPAT) "4446438"(USPAT) "4451904"(USPAT)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/21 11:00
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## EAST Search History

S32	99	S31 and (helical\$3 or spiral or twist\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/21 11:00
S33	14	("2895508"   "3502218"   "3633343"   "3636982"   "3750889"   "4190105"   "4806086"   "4926933"   "5601717"   "5985144"   "6105664"   "6206090").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/21 11:10
S34	0	("7108139").URPN.	USPAT	OR	OFF	2007/06/21 11:11

## EAST Search History

S35	1097	"4481954"(USPAT) "4482461"(USPAT) "4482869"(USPAT) "4488793"(USPAT) "4492928"(USPAT) "4493693"(USPAT) "4494552"(USPAT) "4503134"(USPAT) "4504855"(USPAT) "4509205"(USPAT) "4514755"(USPAT) "4521493"(USPAT) "4523993"(USPAT) "4524363"(USPAT) "4535793"(USPAT) "4547798"(USPAT) "4558452"(USPAT) "4560963"(USPAT) "4565555"(USPAT) "4570233"(USPAT) "4575422"(USPAT) "4583558"(USPAT) "4584599"(USPAT) "4585924"(USPAT) "4588500"(USPAT) "4596224"(USPAT) "4596257"(USPAT) "4605014"(USPAT) "4613897"(USPAT) "4615803"(USPAT) "4616197"(USPAT) "4619136"(USPAT) "4619674"(USPAT) "4628146"(USPAT) "4756728"(USPAT) "4759778"(USPAT) "4766321"(USPAT) "4766498"(USPAT) "4770118"(USPAT) "4770768"(USPAT) "4775398"(USPAT) "4775845"(USPAT) "4779682"(USPAT) "4780151"(USPAT) "4781526"(USPAT) "4786298"(USPAT) "4790306"(USPAT) "4790614"(USPAT) "4793317"(USPAT) "4796521"(USPAT) "4801188"(USPAT) "4801382"(USPAT) "4802001"(USPAT) "4802902"(USPAT) "4804481"(USPAT) "4808822"(USPAT) "4809209"(USPAT) "4810270"(USPAT)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/22 09:02
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## EAST Search History

S36	577	S35 and (cross or fin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 09:03
S37	25	("0099315"   "1414132"   "3542197"   "3750885"   "3937281"   "3975274"   "4113000"   "4199454"   "4227576"   "4277261"   "4292178"   "4430232"   "4678564"   "4690761"   "4742872"   "4804481"   "4901987"   "4938869"   "5152892"   "5207930"   "5240605"   "5824232").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/22 09:05
S38	25	("0099315"   "1414132"   "3542197"   "3750885"   "3937281"   "3975274"   "4113000"   "4199454"   "4227576"   "4277261"   "4292178"   "4430232"   "4678564"   "4690761"   "4742872"   "4804481"   "4901987"   "4938869"   "5152892"   "5207930"   "5240605"   "5824232").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/22 09:06
S39	1	("6761270").URPN.	USPAT	OR	OFF	2007/06/22 09:10
S41	1	210/494.2.ccls. and (cross adj bar or fin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/22 09:11
S42	23	210/494.2.ccls. and (central or tube)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 09:13
S43	368	210/497.1.ccls. and (central or tube)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 09:22

## EAST Search History

S44	8	("2351053"   "3006480"   "4039457"   "4235723"   "4310419"   "4600416").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/22 09:16
S45	14	("4765893").URPN.	USPAT	OR	OFF	2007/06/22 09:18
S46	131	210/459.ccls. and (central or tube)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 09:24
S47	61	210/462.ccls. and (central or cross)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 09:26
S48	0	210/323.ccls. and (central or cross)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 09:26
S49	0	210/323.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 09:26
S50	614	210/323.2.ccls. and (central or cross)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 09:33
S51	3	"3750889".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 09:33
S52	10	("3253714"   "3327864"   "3394815"   "3442391"   "3633343"   "3685657").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/22 09:33
S53	12	("3750889").URPN.	USPAT	OR	OFF	2007/06/22 09:34

## EAST Search History

S54	5	"3830373".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/22 09:45
S55	11	("3073735"   "3246766"   "3246767"   "3252270"   "3566607"   "3699684").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/22 09:45